

TI-32532

Figure 1

(Pic A)

10

Port.

See 310-1

for relay
drawing



150

a.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x = 4$						

102

104

106

108

110

b.

SELECT TRANSFORMATION						
$x^2 - 3x = 4$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: complete the square						
6: enter subexpr selection						

c.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: add ? to each side						
$x^2 - 3x = 4$						
? = -4						
Enter=OK ESC=Cancel						

d.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x = 4$						
► add -4 to each side						
Press <ENTER>						

e.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x = 4$						
► add -4 to each side						
$x^2 - 3x + -4 = 4 + -4$						

f.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x = 4$						
► add -4 to each side						
$x^2 - 3x + -4 = 4 + -4$						
► simplify						
Press <ENTER>						

g.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x = 4$						
► add -4 to each side						
$x^2 - 3x + -4 = 4 + -4$						
► simplify						
$x^2 - 3x - 4 = 0$						

h.

SELECT TRANSFORMATION						
$x^2 - 3x - 4 = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: quadratic formula						
6: enter subexpr selection						

i.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x - 4 = 0$						
► simplify						
$x^2 - 3x - 4 = 0$						
► factor left-hand side						
$(x-4)(x+1) = 0$						

j.

SELECT TRANSFORMATION						
$(x-4)(x+1) = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: A+B=0 → A=0 or B=0						
5: distribute multiplication						
6: $(A+B) \cdot C \rightarrow A \cdot C + B \cdot C$						
7: $A \cdot (B+C) \rightarrow A \cdot B + A \cdot C$						

k.

SELECT TRANSFORMATION						
$x^2 - 3x - 4 = 0$						
► factor left-hand side						
$(x-4)(x+1) = 0$						
► A \cdot B = 0 → A=0 or B=0						
$x-4 = 0 \text{ or } x+1 = 0$						

l.

SELECT TRANSFORMATION						
$x - 4 = 0 \text{ or } x + 1 = 0$						
1: solve linear equation						
2: enter subexpr selection						

m.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$(x-4)(x+1) = 0$						
► A \cdot B = 0 → A=0 or B=0						
$x-4 = 0 \text{ or } x+1 = 0$						
► solve linear equation						
$x = 4 \text{ or } x = -1$						

n.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3x - 4 = 0$						
► quadratic formula						
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$						

o.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
► quadratic formula						
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$						
► simplify						
$x = 4 \text{ or } x = -1$						

Figure 3

Figure 3

P3: Solve for x
 $x^2 - 3x = 4$
 ► add -4 to each side
 $x^2 - 3x + -4 = 4 + -4$
 ► simplify
 $x^2 - 3x - 4 = 0$
 Use $\leftarrow, \rightarrow, \downarrow, \uparrow, \text{Shift-}, \text{Shift-}, \text{ESC}, \text{F2}, \text{F4}, \text{F7}$

(a)

SELECT TRANSFORMATION
 $x^2 - 3x - 4$
 1:factor
 2:H-B ~ H+~B
 3:exit subexpr selection
 4:rewrite as ?
 TYPE OR USE $\leftarrow\uparrow\downarrow\rightarrow\leftarrow\uparrow\downarrow$ (ENTER) OR (ESC)

(b)

P3: Solve for x
 $x^2 - 3x = 4$
 ► add -4 to each side
 $x^2 - 3x + -4 = 4 + -4$
 ► simplify
 $x^2 - 3x - 4 = 0$
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(c)

SELECT TRANSFORMATION
 $-3 <$
 1:arithmetic
 2:H-B ~ H+~B
 3:arith, - 0 & 1 ident
 4:A-B \rightarrow B-A
 5:exit subexpr selection
 6:rewrite as ?
 TYPE OR USE $\leftarrow\uparrow\downarrow\rightarrow\leftarrow\uparrow\downarrow$ (ENTER) OR (ESC)

(d)